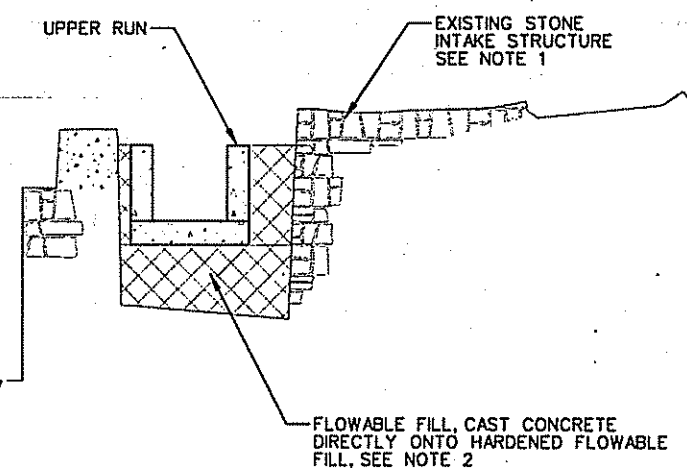


EXISTING CONCRETE PIPE AND PEDESTAL TO BE REMOVED AS SHOWN ON SHEET C-2

APPROXIMATE BEDROCK SURFACE SEE NOTE 5

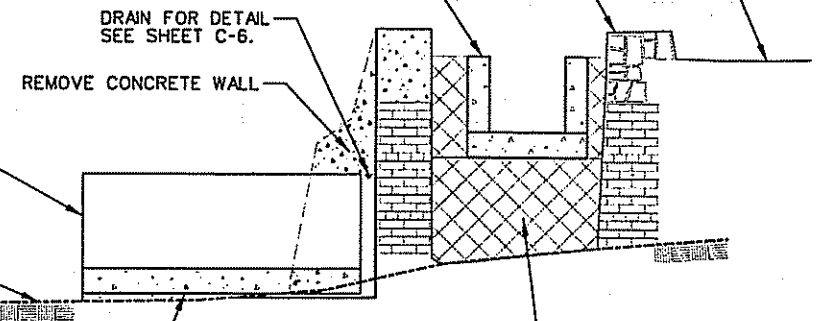


SECTION A
SCALE 1"=5' C-3

APPROXIMATE BEDROCK SURFACE SEE NOTE 5

LOWER RUN ENTRANCE

EXCAVATE BEDROCK AS NEEDED AND EXTEND CONCRETE TO BEDROCK, SEE SECTION I-I, SHEET S-1



SECTION B
SCALE 1"=5' C-3

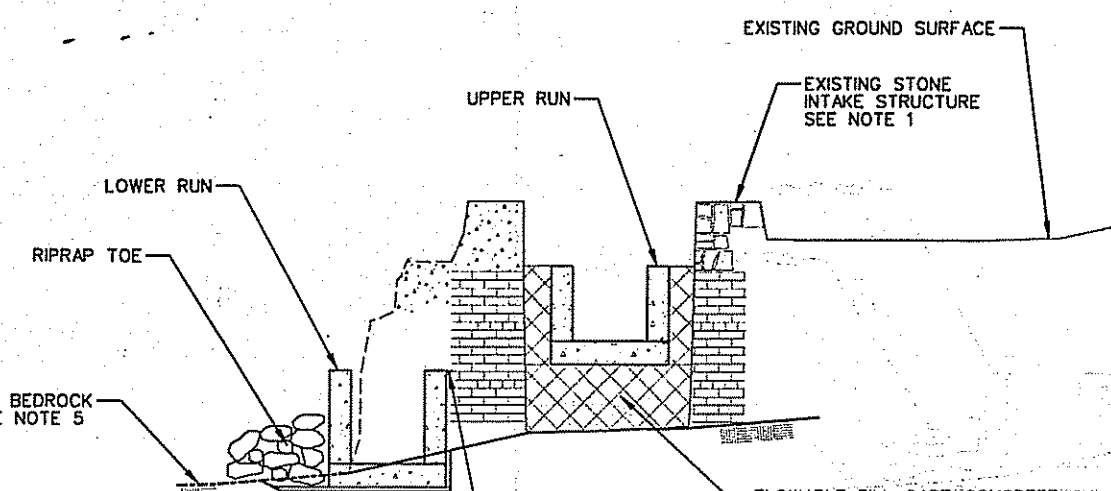
PLACE FLOWABLE FILL CAST CONCRETE DIRECTLY ONTO HARDENED FLOWABLE FILL, SEE NOTE 2

LOWER RUN

RIPRAP TOE

APPROXIMATE BEDROCK SURFACE SEE NOTE 5

EXCAVATE BEDROCK AS NEEDED AND EXTEND CONCRETE TO BEDROCK, SEE SECTION I-I, SHEET S-1

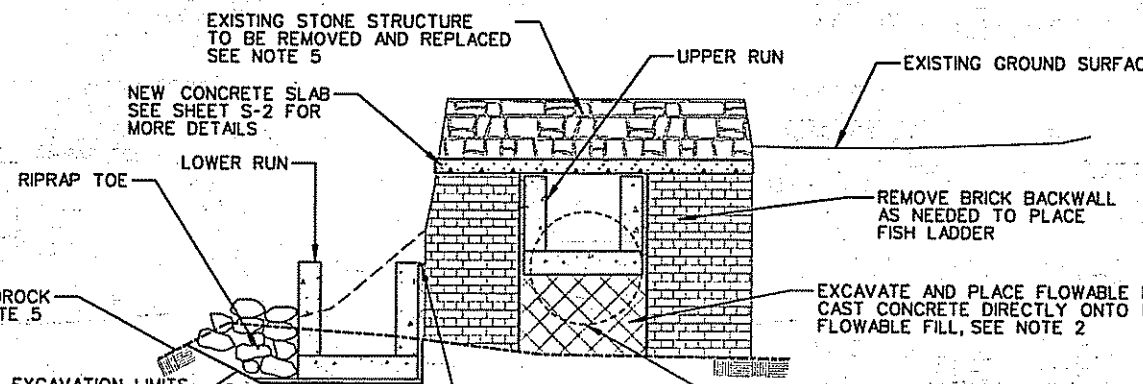


SECTION C
SCALE 1"=5' C-3

RIPRAP TOE

APPROXIMATE BEDROCK SURFACE SEE NOTE 5

EXCAVATE BEDROCK AS NEEDED AND EXTEND CONCRETE TO BEDROCK, SEE SECTION I-I, SHEET S-1



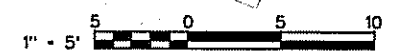
SECTION D
SCALE 1"=5' C-3

NOTES:

1. THE BOTTOM OF THE STONE INTAKE STRUCTURE SHALL BE CLEARED OF ALL DEBRIS. THE STONE INTAKE STRUCTURE SHALL BE PRESERVED.
2. FLOWABLE FILL SHALL BE USED BETWEEN THE BEDROCK SURFACE AND THE BOTTOM OF THE CONCRETE FISH LADDER.
3. SATISFACTORY MATERIAL SHALL BE USED BETWEEN THE FISH PASSAGE UPPER AND LOWER RUNS AS SHOWN AND ALSO TO REGRADE THE SLOPE ALONG THE UPPER RUN. THE TOP 6 INCHES OF SATISFACTORY MATERIAL SHALL BE TOP SOILED AND SEEDED. ALL DISTURBED GRASS AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON PROJECT COMPLETION.
4. THE BACKWALL OF THE STONE INTAKE STRUCTURE SHALL BE DISMANTLED AS NECESSARY IN ORDER TO REMOVE THE EXISTING PIPE AND INSTALL THE FISH PASSAGE. AS MUCH OF THE EXISTING STRUCTURE SHALL BE PRESERVED AS POSSIBLE. THE EXISTING EXPOSED PORTION OF THE BACKWALL SHALL BE RE-CONSTRUCTED ON TOP OF A CONCRETE SLAB AS SHOWN. THE SLAB SHALL BE CAST IN PLACE ONTO THE REMAINING FOUNDATION WALL AS SHOWN IN SECTION D-D AND SHEET S-2.
5. THE BEDROCK SURFACE SHOWN IS APPROXIMATE BASED ON EXISTING BORINGS AND SURVEY DATA. THE ACTUAL SURFACE SHALL BE VERIFIED IN THE FIELD.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED May 7, 2009 FILE # 09-0078
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Christopher D. Wenzel

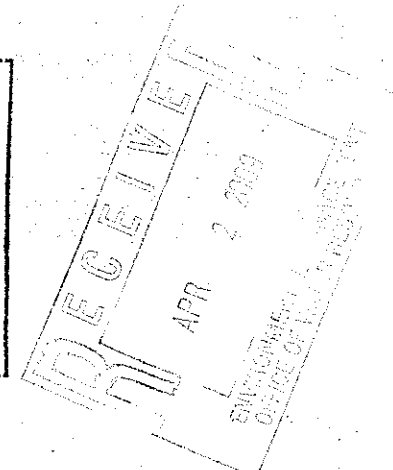


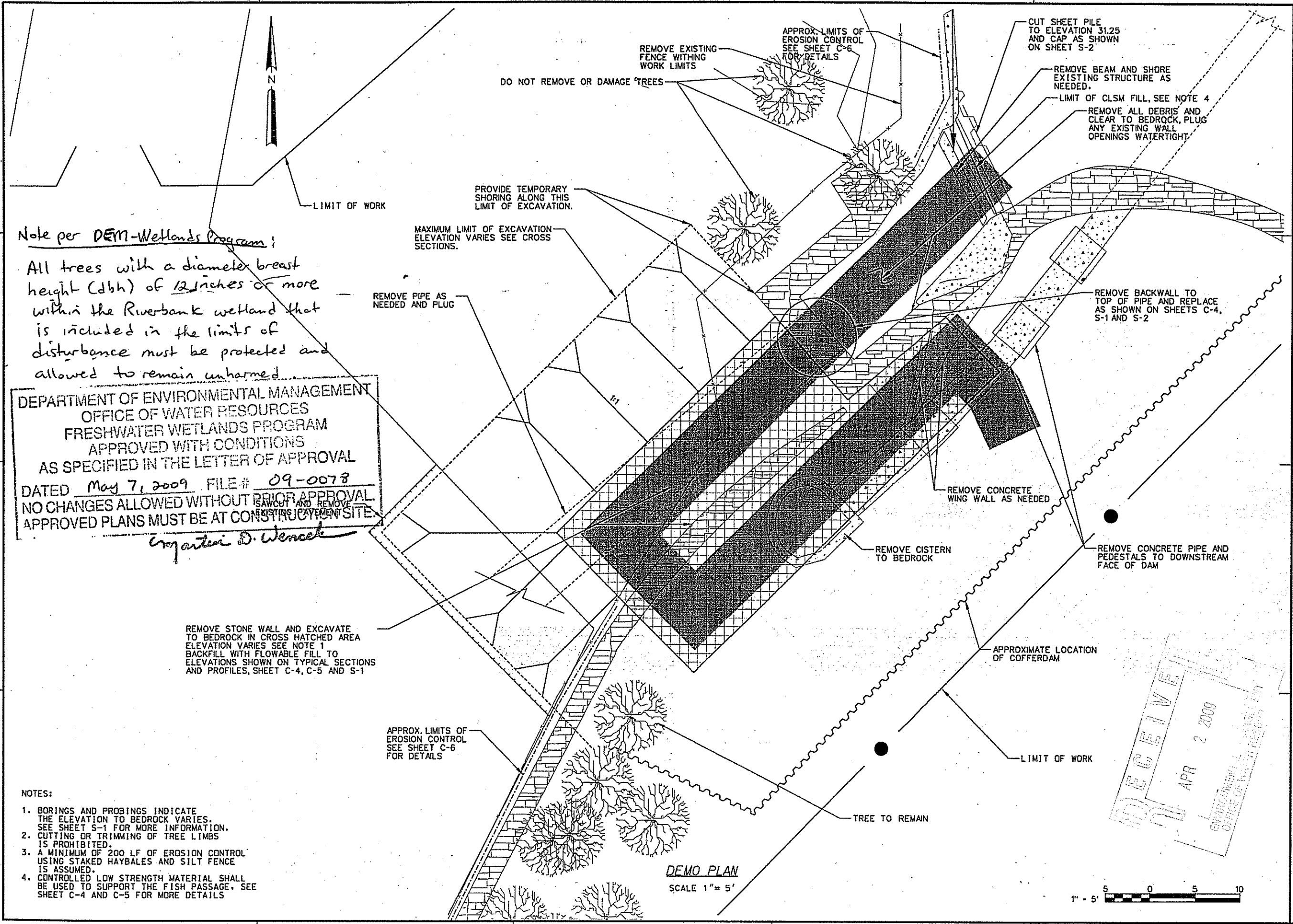
DATE	APPROVAL	DESCRIPTION

DESIGNED BY: J.L.	DATE: 27 FEBRUARY 2009
DRAWN BY: J.L.	SOLICITATION NO.:
CHECKED BY: D.D.	CONTRACT NO.:
SUBMITTED BY:	DRAWING CODE:
FILE NAME:	PLAT SCALE:
SIZE:	PLAT DATE:
ANSI D:	

FISH PASSAGE FACILITY
HUNTS MILL DAM
EAST PROVIDENCE, R.I.
TYPICAL SECTIONS

SHEET IDENTIFICATION NUMBER
C-4
2007 1 OF 10





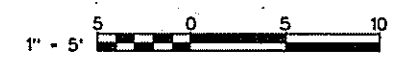
Note per DEM-Wetlands Program:
 All trees with a diameter breast height (dbh) of 12 inches or more within the Riverbank wetland that is included in the limits of disturbance must be protected and allowed to remain unharmed.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Christopher D. Wenczek

- NOTES:
1. BORINGS AND PROBINGS INDICATE THE ELEVATION TO BEDROCK VARIES. SEE SHEET S-1 FOR MORE INFORMATION.
 2. CUTTING OR TRIMMING OF TREE LIMBS IS PROHIBITED.
 3. A MINIMUM OF 200 LF OF EROSION CONTROL USING STAKED HAYBALES AND SILT FENCE IS ASSUMED.
 4. CONTROLLED LOW STRENGTH MATERIAL SHALL BE USED TO SUPPORT THE FISH PASSAGE. SEE SHEET C-4 AND C-5 FOR MORE DETAILS.

DEMO PLAN
 SCALE 1" = 5'



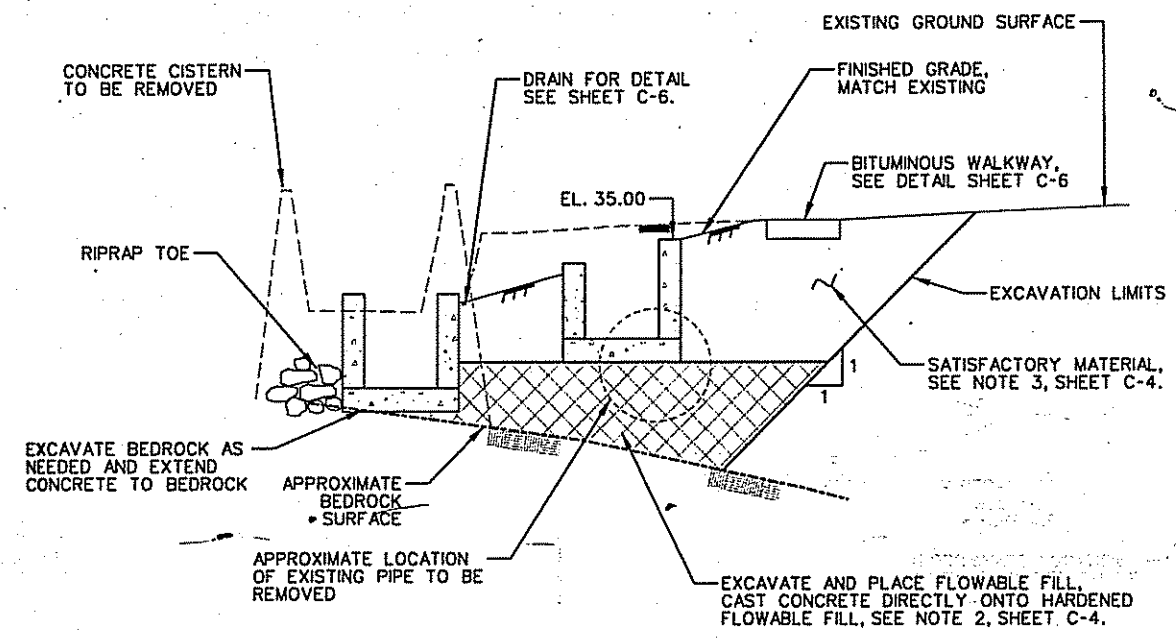
 US ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	
DESIGNED BY: J.L. DWN BY: D.D. SUBMITTED BY: J.L.	DATE: 27 FEBRUARY 2009 SOLICITATION NO.: CONTRACT NO.: DRAWING CODE:
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS CONCORD, MASSACHUSETTS	FILE NAME: C209 SIZE: ANS/D PLOT SCALE: PLOT DATE:
FISH PASSAGE FACILITY HUNTS MILL DAM EAST PROVIDENCE, R.I.	
DEMO PLAN	
SHEET IDENTIFICATION NUMBER C-2 PAGE 4 OF 12	

D

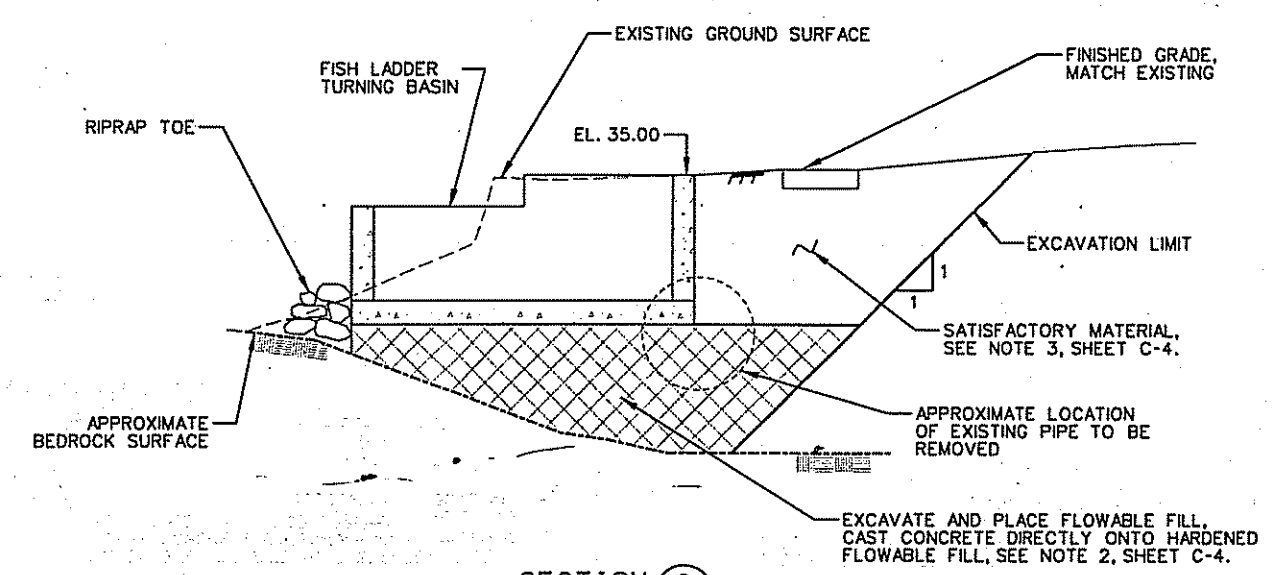
C

B

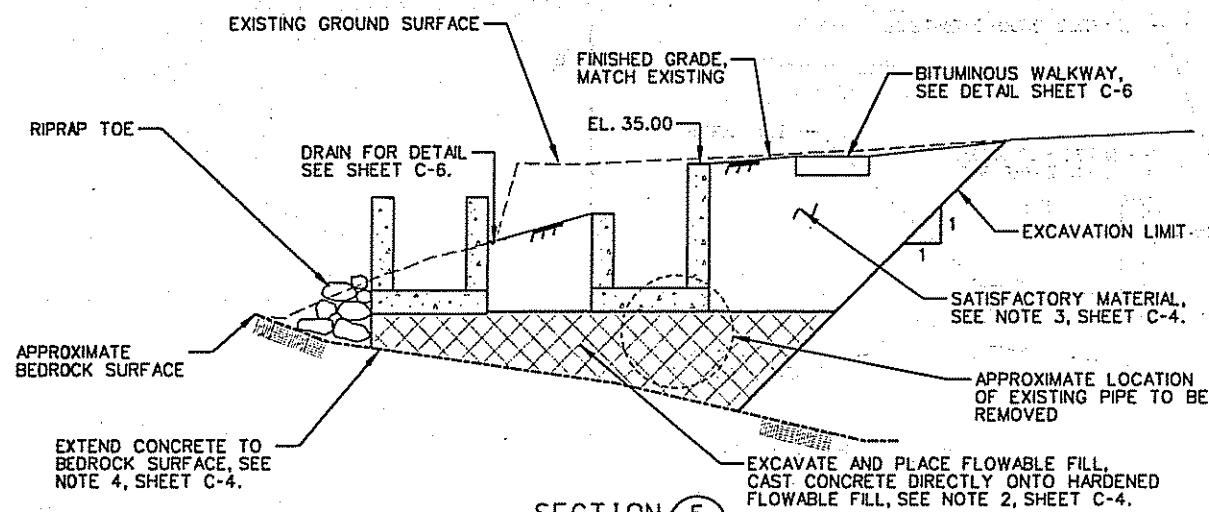
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SECTION E
SCALE 1"=5' C-3

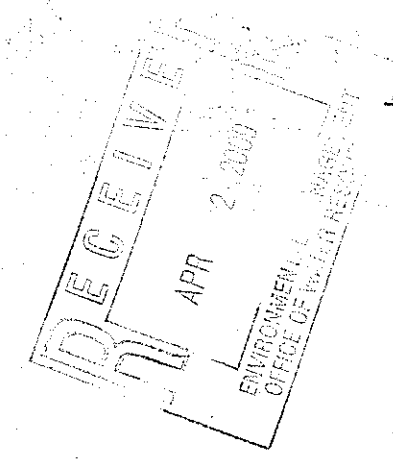


SECTION G
SCALE 1"=5' C-3



SECTION F
SCALE 1"=5' C-3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Jonathan D. Wencel



US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION

DESIGNED BY: J.L.	DATE: 27 FEBRUARY 2009
DRAWN BY: J.L.	REGISTRATION NO.:
SUBMITTED BY: J.L.	CONTRACT NO.:
FILE NAME:	DRAWING CODE:
SIZE: A3/D	PLOT SCALE:
	PLOT DATE:

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

FISH PASSAGE FACILITY
HUNTS MILL DAM
EAST PROVIDENCE, R.I.

TYPICAL SECTIONS

SHEET IDENTIFICATION NUMBER
C-5

